

GMP PerCP/Cyanine5.5 anti-human CD13 Antibody

Catalog# / Size	260332 / 100 tests
Clone	WM15
Workshop	IV M44
Other Names	Aminopeptidase N, APN, gp150
Isotype	Mouse IgG1, κ
Description	CD13 is a 150-170 kD type II transmembrane glycoprotein also known as aminopeptidase N, APN, and gp150. This zinc metalloproteinase is expressed as a homodimer on granulocytes, myeloid progenitors, endothelial cells, epithelial cells and subset of granular lymphoid cells. It is not expressed on platelets or erythrocytes. CD13 is thought to be involved in the metabolism of many regulatory peptides and functions in antigen processing and the cleavage of chemokines such as MIP-1. CD13 serves as the cellular receptor for Coronavirus.

Product Details

Reactivity	Human
Reported Reactivity	Baboon, Chimpanzee, Cotton-topped Tamarin
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	200 µg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: inhibition of tumor-cell invasion and blocking of aminopeptidase activities ^{2,3} , and immunohistochemical staining of acetone-fixed frozen tissue sections ⁵ . WM15 does not recognize formalin-fixed or paraffin-embedded tissue sections ⁵ . The LEAF™ purified antibody (Endotoxin < 0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 301708). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 301723 and 301724) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin < 0.01 EU/µg).
Application References	<ol style="list-style-type: none"> Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. Saiki I, <i>et al.</i> 1993. <i>Int J Cancer</i>. 54:137. (Block) Rosenzwajg M, <i>et al.</i> 2000. <i>Blood</i> 95:453. (Block) Kawase M, <i>et al.</i> 2008. <i>J Virol</i>. 83:712. (Block) PubMed Di Matteo P, <i>et al.</i> 2011. <i>J. Histochem. Cytochem.</i> 59:47. (IHC)
(PubMed link indicates BioLegend citation)	
Disclaimer	GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research

use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure	Zinc metallopeptidase, type II integral membrane glycoprotein, 150-170 kD
Distribution	Granulocytes, monocytes, myeloid progenitors, endothelial and epithelial cells, granular lymphocyte subset
Function	Zinc-binding metalloproteinase, antigen processing, cleaves MIP-1 chemokine
Ligand/Receptor	Coronavirus receptor
Cell Type	Endothelial cells, Epithelial cells, Granulocytes, Hematopoietic stem and progenitors, Lymphocytes, Mesenchymal Stem Cells, Monocytes, Neutrophils
Biology Area	Immunology, Stem Cells
Molecular Family	CD Molecules
Antigen References	1. Shipp M, <i>et al.</i> 1993. <i>Blood</i> 82:1052. 2. Larsen S, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:183.
Gene ID	290

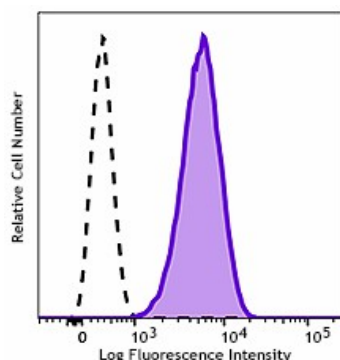
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD13, PE anti-human CD13, Purified anti-human CD13, Brilliant Violet 421™ anti-human CD13, APC/Cyanine7 anti-human CD13, PE/Cyanine7 anti-human CD13, PerCP/Cyanine5.5 anti-human CD13, Purified anti-human CD13 (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD13, Brilliant Violet 711™ anti-human CD13, Ultra-LEAF™ Purified anti-human CD13, Brilliant Violet 785™ anti-human CD13, Brilliant Violet 605™ anti-human CD13, TotalSeq™-A0364 anti-human CD13, TotalSeq™-B0364 anti-human CD13, TotalSeq™-C0364 anti-human CD13, TotalSeq™-D0364 anti-human CD13, GMP APC anti-human CD13, GMP PE anti-human CD13, PE/Fire™ 810 anti-human CD13, GMP PE/Cyanine7 anti-human CD13, GMP PE/Dazzle™ 594 anti-human CD13

Product Data



Typical results from human peripheral blood granulocytes stained either with WM15 PerCP/Cyanine5.5 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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